

Gemini VII 2390 Specifications

Applicability	Surface Area: From 0.1 m ² /g, total From 0.01 m ² /g, specific Pore Volume: 4 x 10 ⁻⁶ cm ³ /g
Pressure Measurement	Pressure Measurement Range: 0 to 950 mm Hg P/P₀ Resolution: <10 ⁻⁴ Relative Pressure Range: 0 to 1.0 P/P ₀ (adsorption only) Pressure Resolution: <0.1 mmHg Accuracy and Linearity: Better than ± 0.5% Full Scale (transducer manufacturer's specification)
Environment	Temperature: 10 to 35 °C (50 to 96 °F) operating 0 to 50 °C (32 to 122 °F) non-operating Humidity: 20% to 80% relative, non-condensing
Gases	Adsorbate: Optimized for nitrogen in a liquid nitrogen sample bath. Gemini may be used with non-corrosive adsorbate gases having vapor pressures at both room and bath temperatures that are acceptably high relative to the resolution of the 1000-mmHg pressure transducer. Typically, oxygen, argon, carbon dioxide, butane, methane, and other light hydrocarbons will produce useful data above absolute pressures of a few mmHg. Helium inlet also provided.
Vacuum System	Vacuum source achieving 20 x 10 ⁻³ mmHg (or better) at the instrument inlet; having a device to reduce oil vapor backstreaming is recommended. The system must have an anti-suckback valve to prevent oil from being admitted into the Gemini should there be a power failure.
Sample Tube / Dewar	Standard tube: Gemini VII 2390a and 2390p: 0.95 cm (3/8 in.) outside diameter by 15.5 cm (6.1 in.) with 6.5 cm ³ of volume Sample capacity is approximately 2.0 cm ³ Gemini VII 2390t: 0.95 cm (3/8 in.) outside diameter by 20.5 cm (8.1 in.) with 8.9 cm ³ of volume Sample capacity is approximately 2.0 cm ³ Dewar: ~ 8 hours; Gemini VII 2390a and 2390p ~ 24 hours; Gemini VII 2390t
Electrical	Voltage: 85 to 265 VAC Frequency: 50/60 Hz Power: 150 VA, operating, max. plus vacuum pump

<p>Computer Hardware and Software</p>	<p>Minimum Requirements: (optional) Operating System: Windows Vista® Business or Ultimate, Windows XP Professional Memory: 512 megabytes of RAM Hard Disk Space: 20 gigabytes One CD ROM drive Monitor: 1024 x 768 display capability Ethernet port* (capable of communicating with a 10 base-T card) <small>*An additional Ethernet port is required if the computer is to be connected to a network</small></p>
<p>Physical</p>	<p>Height: 59 cm (23 in.); Gemini VII 2390_a and 2390_p 74 cm (29 in.); Gemini VII 2390_t Width: 40 cm (16 in.) Depth: 51 cm (20 in.) Weight: 32 kg (70 lbs); Gemini VII 2390_a and 2390_p 35 kg (78 lbs); Gemini VII 2390_t</p>

In keeping with a policy of ongoing product improvement, specifications are subject to change without notice.



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